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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/800,662	03/16/2004	Tetsuya Kawanabe	00862.023505	4728

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EXAMINER

RAHMAN, FAHMIDA

ART UNIT	PAPER NUMBER
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2116

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/800,662	Applicant(s) KAWANABE, TETSUYA	
	Examiner FAHMIDA RAHMAN	Art Unit 2116	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 December 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 15-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 15-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This final action is in response to communications filed on 12/26/2007.
2. Claims 1-14 have been cancelled and claims 15-18 are added. Thus, claims 15-18 are pending.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 15-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oprescu et al (US Patent 5483656), in view of Ishikawa (US Patent 6526516), further in view of Applicant Admission of Prior Art.

For claim 15, Oprescu et al teach the following limitations:

An apparatus provided with a first interface (connection to 20), conforming to a first specification (conforms to that particular peripheral device and 1394 standard as mentioned in lines 39-42 of column 12), connectible to a peripheral (20), a second interface (connection to 26), conforming to a second specification (conforms to that peripheral and 1394), connectible to a second peripheral

(26), and power supply means (30) for supplying power to the peripheral and the second peripheral through the first and second interfaces (Fig 1 shows 20 and 26 are fed through 30), respectively, the apparatus comprising:

peripheral control means (bus manager 31, status table 56 in Fig 2) for detecting a connection state (lines 15-20 of column 7 mention that information regarding connected devices are gathered via 31) and operation state of the peripheral (status table stores the operation state of a device as shown in Fig 2; line 20 of column 6), and controlling communication with the peripheral (lines 40-60 of column 8 mention that peripheral devices are controlled based on device status table);

second peripheral device control means (bus manager 31, status table 56 in Fig 2) for detecting a connection state (lines 15-20 of column 7 mention that information regarding connected devices are gathered via 31) and operation state of the second peripheral device, and controlling access to the second peripheral device (lines 40-60 of column 8 mention that peripheral devices are controlled based on device status table);

determining means for determining whether or not a total amount of power supplied to both the peripheral and the second peripheral device exceeds a predetermined amount of power (108 in Fig 2);

power supply stop means for stopping supplying power to an external device from among the peripheral and the second peripheral device (115 in Fig 2 shows that lower priority device is revoked from power), based on a determination result of said determining means (115 depends on 108), and setting in a memory

(device status table is stored in a memory) a flag (current state of the device) indicating a stop of supplying power to the external device (state information in device status table of 50 in Fig 2 stores current device status, whether it is inactivated);

monitoring means for monitoring whether or not an external device, to which power is still being supplied, from among the peripheral and the second peripheral device, enters an idle state, based on detection results of said peripheral control means and said second peripheral control means (lines 32-37 of column 8 mention that completion of operation updates the device status table. Thus, the system has a monitoring means to monitor whether device completed its operation and entered idle state. This is based on detection results, since status table updates only for the devices that are connected);

power supply restart means for, if the flag is set, restarting supplying power to the external device, based on a monitoring result of said monitoring means (lines 14-21 of column 9 mention that all power usage requests are re-executed and 50 is able to intelligently manage the operation of the connected devices. Thus, the lower priority device can be restarted with power if it is listed as inactivated in device status table and any other device requires the operation of the external device (lines 65-66 of column 11)).

Oprescu et al do not explicitly mention about the following limitations:

- second peripheral device is a memory card

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- stopping power supply to previously connected device
- confirmation means for confirming whether or not the previously-connected external device is connected, based on the detection results of said peripheral control means and said second peripheral control means;
- power supply restart means based on a confirmation results of said confirmation results.

As Oprescu implements the system with 1394 standard (lines 30-35 of column 9), new device connection/disconnection causes bus reset sequence. Ishikawa et al explain the bus reset sequence of 1394 standard in lines 25-50 of column 19. Therefore, 1394 system has confirmation means whether a device is connected. Lines 35-47 of Oprescu mention that addition or removal updates the configuration. Thus, the table shown in Fig 2 confirms whether a device is connected to the system. The power supply is restarted to the idle device based on current device status table as it provides device information to the system.

It would have been obvious for one ordinary skill in the art at the time the invention was made to combine the teachings of Oprescu and Ishikawa. One ordinary skill would be motivated to combine the teachings as both are directed to 1394 standard and Ishikawa provides implementation of 1394 standard.

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Oprescu does not mention that external connected device is a previously connected device. Oprescu stops power to low priority device. As 1394 standard can add/remove devices from the network, it is possible that earlier connected device is the low priority device.

Either Oprescu or Ishikawa does not mention that second peripheral is a memory card. Applicant admits that memory card is an external device for a printing apparatus ([0005] and [0006]). Therefore, the second peripheral of Oprescu can be a memory card. One ordinary skill would be motivated to include memory card as peripheral depending on design choice.

Although Oprescu does not explicitly mention that system shown in Fig 1 is a printing apparatus, such a limitation is an intended use in preamble. Oprescu's system is able to print as 22 is connected and therefore, meets the limitation of "printing apparatus".

For claim 16, memory card peripheral has memory slot.

For claim 17, both interfaces are 1394 in Oprescu. However, applicant admits that USB can be used for connecting device. Thus, both interfaces are well known in the art.

Claim 18 is the corresponding method of claim 1. Thus, the cited art that teaches claim 15, teaches claim 18 too.

Response to Arguments

Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **FAHMIDA RAHMAN** whose telephone number is (571)272-8159. The examiner can

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normally be reached on Monday through Friday 8:30 -6:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rehana Perveen can be reached on 571-272-3676. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Fahmida Rahman
Examiner
Art Unit 2116

/Rehana Perveen/
Supervisory Patent Examiner, Art Unit 2116